

In re Application of OJANEN  
Serial No. 09/838,348

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Group Art Unit 3673

**Response to the Non-Final Office Action of February 1, 2005**

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**This listing of claims will replace all prior versions, and listings, of claims in the application:**

**LISTING OF CLAIMS:**

**Claims 1-14 (Cancelled).**

15. (Previously Presented) A cutting tool assembly for rotatable retention within a bore of a bit holder wherein the bore includes a groove, said assembly comprising:

- a cutting tool;
- a retainer sleeve carried by the cutting tool, and the retainer including at least one radially outward projecting dimple that is received within the groove;
- wherein said retainer has a cylindrical circumference and a thickness dimension;
- the amount of radial projection of said dimple beyond the cylindrical surface of the retainer is between a minimum equal to about 15 percent of the thickness dimension of the retainer so as to provide sufficient holding force to rotatably retain the cutting tool within the bore during operation and a maximum equal to about 30 percent of the thickness dimension of said retainer so as to provide for a maximum force to allow the removal of the cutting tool from the bore without the necessity of excessive force.

16. (Original) A cutting tool assembly according to claim 15, wherein said retainer sleeve includes a plurality of said dimples spaced relative to one another about the circumference of said retainer sleeve.

17. (Original) A cutting tool assembly according to claim 15, wherein said dimples are generally semi-spherical.

**Claims 18-28 (Canceled).**

29. (Previously Presented) A retainer for use in conjunction with a cutting tool, said retainer comprising:

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a retainer sleeve carried by the cutting tool and including at least one radially outward projecting dimple;

wherein said retainer has a cylindrical circumference and a thickness dimension:

the amount of radial projection of said dimple beyond the cylindrical surface of the retainer is between about 15 percent and about 30 percent of the thickness dimension of said retainer.

30. (Original) A retainer according to claim 29, wherein said retainer sleeve includes a plurality of said dimples equally spaced relative to one another about the circumference of said retainer sleeve.

**31. (Canceled).**

32. (Previously Presented) A cutting tool assembly according to claim 15 wherein said dimples extend between about .007 – .020 inches beyond an exterior cylindrical surface of said retainer.

33. (Previously Presented) A cutting tool assembly according to claim 17 wherein said dimple has a diameter of between about .06 - .10 inches.

34. (Previously Presented) A cutting tool assembly according to claim 17 wherein said retainer has a plurality of said dimples.

**Claim 35. (Cancelled)**

36. (Previously Presented) A retainer according to claim 29 wherein said dimples extend between about .007 – .020 inches beyond an exterior cylindrical surface of said retainer.

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37. (Previously Presented) A retainer according to claim 29 wherein said dimple has a diameter of between about .06 - .10 inches.

38. (Previously Presented) A retainer according to claim 29 wherein said retainer has a plurality of said dimples.

39. (Previously Presented) A cutting tool assembly, said assembly comprising:  
a cutting tool:  
a retainer sleeve carried by the cutting tool, and including at least one radially outward protruding surface;  
wherein said retainer has a cylindrical circumference and a thickness dimension,  
the amount of radial projection of said protruding surface beyond the cylindrical surface of the retainer is between about 15 percent and about 30 percent of the thickness dimension of said retainer.

40. (Previously Presented) A retainer for use in conjunction with a cutting tool, said retainer comprising:  
a retainer sleeve carried by the cutting tool and including at least one radially outward protruding surface;  
wherein said retainer has a cylindrical circumference and a thickness dimension:  
the amount of radial projection of said protruding surface beyond the cylindrical surface of the retainer is between about 15 percent and about 30 percent of the thickness dimension of said retainer.

41. (Canceled).

42. (Canceled).

43. (Previously Presented) A generally cylindrical retainer for use in conjunction with a cutting tool, said retainer comprising:

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a retainer sleeve carried by the cutting tool and including at least two radially outward projecting dimples;

wherein said retainer has a central longitudinal axis and a thickness dimension, and all said at least two dimples are generally located within a common radial plane;

the amount of radial projection of said dimple beyond the cylindrical surface of the retainer is between about 15 percent and about 30 percent of the thickness dimension of said retainer,

wherein said retainer is constructed from steel.

44. (Previously Presented) A retainer according to claim 43 wherein said at least two dimples extend between about .007 - .020 inches beyond an exterior cylindrical surface of said retainer.

45. (Previously Presented) A retainer according to claim 44 wherein said dimple has a diameter of between about .06 - .10 inches.

46. (Previously Presented) A retainer according to claim 29 wherein said retainer has an endface, and a bottom end, wherein a slit extends from said bottom end to said endface.

47. (Previously Presented) A retainer according to claim 40 wherein said retainer has an endface, and a bottom end, wherein a slit extends from said bottom end to said endface.